

# Abd El Madjid Kahoul

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## Professional Summary

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Software Engineering & Intelligent Systems graduate with hands-on experience in telecom, ERP, AI, and full-stack development. Skilled in designing, developing, and deploying scalable solutions using Python, Java, JavaScript, and modern frameworks. Strong foundation in AI innovation, problem-solving, and collaborative teamwork, with a track record of delivering impactful academic and professional projects.

## Education

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<b>Master's in Software Engineering &amp; Intelligent Systems</b> <i>University of Constantine 2</i>	2023 – 2025 <i>Top Class B</i>
<b>Bachelor's in Software Engineering</b> <i>University of Constantine 2</i>	2020 – 2023 <i>Class A</i>
<b>Baccalaureate in Experimental Sciences</b> <i>Kateb Yacine High School</i>	2019 – 2020 <i>Mention Bien</i>

## Experience

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<b>AI Developer Intern – Ooredoo Algeria</b> <i>Constantine, Algeria</i>	Apr 2025 – Jul 2025
<ul style="list-style-type: none"><li>– Contributed to <b>RAVA</b> AI platform for LTE anomaly detection.</li><li>– Processed KPI datasets, implemented ML/DL models.</li><li>– Collaborated with telecom teams for seamless integration.</li></ul>	
<b>Full-Stack Developer Intern – Create DZ</b> <i>Constantine, Algeria</i>	Jul 2024 – Sep 2024
<ul style="list-style-type: none"><li>– Developed ERP modules with React.js, Django, MySQL.</li><li>– Participated in requirement analysis and feature development.</li></ul>	
<b>Backend Developer Intern – University of Constantine 2</b> <i>Constantine, Algeria</i>	Sep 2023 – Dec 2023
<ul style="list-style-type: none"><li>– Created laboratory management application for Rector's office.</li></ul>	

## Projects & Achievements

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<b>RAVA – AI Anomaly Detection in RAN</b> <i>Ooredoo Algeria</i>	2025
<ul style="list-style-type: none"><li>– AI platform for detecting anomalies in LTE KPIs.</li><li>– Python, TensorFlow, Django, React, PostgreSQL.</li></ul>	
<b>Assurini – Mobile Car Insurance</b> <i>Mini Project</i>	Apr 2024
<ul style="list-style-type: none"><li>– Mobile app for insurance requests, claims, and payments.</li><li>– Java, Android Studio, Firebase.</li></ul>	
<b>Walmart Store Sales Forecasting</b> <i>Mini Project</i>	Dec 2023
<ul style="list-style-type: none"><li>– Data processing, model selection, sales prediction, dashboard visualization.</li><li>– Python (NumPy, Pandas, Scikit-learn), Flask, HTML, CSS.</li></ul>	
<b>RegisterCom – Company Registration</b> <i>Mini Project</i>	Dec 2023
<ul style="list-style-type: none"><li>– Mobile app for registration request tracking and notifications.</li><li>– Java, Android Studio, Firebase.</li></ul>	
<b>SecureAuth – Biometric Authentication</b> <i>Mini Project</i>	Jun 2023
<ul style="list-style-type: none"><li>– Facial, voice, and fingerprint recognition authentication.</li><li>– Python, Kivy, OpenCV, SOCOFing dataset.</li></ul>	
<b>QuickLab – AI-Driven Lab Management</b> <i>Bachelor Final Project</i>	Feb 2023 – Jun 2023

- Secure lab operations management web platform.
- MySQL, HTML, CSS, JavaScript, Django.

### **Thread Ball – Java-Based Concurrent Football Simulation**

Jan 2023

#### *Personal Project*

- Built a multithreaded football simulation with each player as an independent thread, using semaphores for ball possession control.
- Added scoring logic, GUI interaction, and random movement to simulate real-time gameplay.
- Technologies: Java, Threads, Semaphores, Swing.

### **E-learning Website**

Jan 2023

#### *Mini Project*

- MVC-based e-learning platform.
- MySQL, HTML, CSS, JavaScript, Java (Servlets).

## **Certifications**

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- AWS Cloud Practitioner (Foundational) – AWS (2024)
- TCF French – Level B2

## **Skills**

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- **Programming:** Python, Java, JavaScript, SQL, HTML5, CSS3
- **Frameworks & Tools:** Django, Flask, React, Bootstrap, Git, Jira , Figma
- **Databases:** MySQL, PostgreSQL, Oracle, Firebase
- **AI & Data:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow , OpenCV
- **Soft Skills:** Leadership, Problem-Solving, Teamwork, Communication, Adaptability

## **References**

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- **Belguidom Meriem** – Professor, University of Constantine 2
- **Fayçel Chelghoum** – Radio Planning Engineer, Ooredoo Algeria